

REF DPM 5376

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>KOLENE CORPORATION</b>		EMERGENCY TELEPHONE NO. <b>(313) 273-9220</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>12890 Westwood Avenue, Detroit, Michigan 48223</b>		
CHEMICAL NAME AND SYNONYMS <b>Cleaning Chemicals</b>		TRADE NAME AND SYNONYMS <b>Kolene #5</b>
CHEMICAL FAMILY <b>Caustic Alkali</b>	FORMULA <b>NaOH, NaNO<sub>3</sub>, NaCl</b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLOW		
ADDITIVES			OTHERS		
OTHERS					

*NOT APPLICABLE*

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Sodium Hydroxide	40 - 60% Wt.	
Sodium Nitrate	40 - 60% Wt.	
Sodium Chloride	10% Max.	

*NOT APPLICABLE*

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Over	1200	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	2.0
VAPOR PRESSURE (mm Hg.)		0	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)		N.A.	EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER		Complete		
APPEARANCE AND ODOR	White granular odorless solid			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	LoI	UoI
		N.A.	N.A.	N.A.
EXTINGUISHING MEDIA	Carbon dioxide and dry powders in vicinity of molten salts.			
SPECIAL FIRE FIGHTING PROCEDURES				
Avoid vaporizing liquids, water, and acid compounds in salt baths.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Introduction of water, vaporizing liquids, magnesium			

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SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	2 mg/m <sup>3</sup> of air
EFFECTS OF OVEREXPOSURE	Effects of contact range from irritation to severe destruction of tissues.
EMERGENCY AND FIRST AID PROCEDURES	Flood affected surfaces with warm water for at least 15 minutes and contact a physician.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Overheating above 1000°F.
INCOMPATIBILITY (Materials to avoid)			
water, acids, reducing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
None likely below 1000°F. Nitrogen oxides possible above this temperature.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	N.A.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Sweep or shovel solid material into metal containers. Avoid personal contact. Rinse or hose area well.
WASTE DISPOSAL METHOD	Dissolve in cold water and neutralize with acid.

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
Dust mask when handling solid salt.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	Forced exhaust over salt bath	
	MECHANICAL (General)	OTHER
	Required.	
PROTECTIVE GLOVES	EYE PROTECTION	
Rubber for solid salt	Face shield	
OTHER PROTECTIVE EQUIPMENT		
Heat-proof gloves and appropriate apparel for molten salt.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in a dry area. Avoid contact of salt with acids. Keep drums closed when not in use.
OTHER PRECAUTIONS	Avoid bodily contact.